CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/BTR/W.No.13/CSR-08/407a/Cube/2017-18 29.09.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
* Name of the work	:	Improvements to main and cross roads at Kalyana Nagarain Ward No.13, in Shettyhalli Sub Division ,BBMP, Bangalore.
* Reference	:	EE/DD/WO/127/2016-17 Dated: 21.02.2017
* Sample ID	:	Drain Covering Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	29.09.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.09.2017	29.09.2017	8.184	479.2	21.30
2	01.09.2017	29.09.2017	8.203	505.4	22.46
3	01.09.2017	29.09.2017	8.418	511.3	22.72

*Information is furnished by the Customer/Representative.

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VIDYARANI P.K.
Technical Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
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Job No.: CTCE/BBMP/BTR/W.No.13/CSR-08/407a/Cube/2017-18 27.09.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
* Name of the work	:	Improvements to main and cross roads at Kalyana Nagarain Ward No.13, in Shettyhalli Sub Division ,BBMP, Bangalore.
* Reference	:	EE/DD/WO/127/2016-17 Dated: 21.02.2017
* Sample ID	:	Drain Covering Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.09.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.08.2017	27.09.2017	8.124	480.3	21.35
2	30.08.2017	27.09.2017	8.263	476.5	21.18
3	30.08.2017	27.09.2017	8.428	500.4	22.24

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AE-13

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Job No.: CTCE/BBMP/BTR/W.No.13/CSR-08/407a/Cube/2017-18 27.09.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
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* Sample ID	:	Drain Covering Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.09.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.08.2017	27.09.2017	8.128	483.6	21.49
2	30.08.2017	27.09.2017	8.247	490.2	21.79
3	30.08.2017	27.09.2017	8.361	511.4	22.73

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* Sample ID	:	Drain Covering Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
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Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.09.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.08.2017	27.09.2017	8.094	493.2	21.92
2	30.08.2017	27.09.2017	8.134	482.7	21.45
3	30.08.2017	27.09.2017	8.267	511.4	22.73

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Job No.: CTCE/BBMP/BTR/W.No.13/CSR-08/407a/Cube/2017-18 18.09.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
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* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.09.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.08.2017	18.09.2017	8.265	488.5	21.71
2	21.08.2017	18.09.2017	8.148	519.2	23.08
3	21.08.2017	18.09.2017	8.206	517.3	22.99

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Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.09.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.08.2017	18.09.2017	8.167	486.2	21.61
2	21.08.2017	18.09.2017	8.204	489.1	21.74
3	21.08.2017	18.09.2017	8.367	500.4	22.24

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Job No.: CTCE/BBMP/BTR/W.No.13/CSR-08/407a/Cube/2017-18 14.09.2017

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Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.09.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.08.2017	14.09.2017	8.196	477.5	21.22
2	17.08.2017	14.09.2017	8.347	495.8	22.04
3	17.08.2017	14.09.2017	8.416	516.4	22.95

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Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.09.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.08.2017	14.09.2017	8.137	495.6	22.03
2	17.08.2017	14.09.2017	8.368	472.6	21.00
3	17.08.2017	14.09.2017	8.420	511.4	22.73

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Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	11.09.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.08.2017	11.09.2017	8.137	490.8	21.81
2	14.08.2017	11.09.2017	8.209	514.3	22.86
3	14.08.2017	11.09.2017	8.368	526.3	23.39

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Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.08.2017	11.09.2017	8.119	486.5	21.62
2	14.08.2017	11.09.2017	8.237	514.3	22.86
3	14.08.2017	11.09.2017	8.514	513.7	22.83

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* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	08.09.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.08.2017	08.09.2017	8.024	499.2	22.19
2	11.08.2017	08.09.2017	8.418	506.2	22.50
3	11.08.2017	08.09.2017	8.364	518.3	23.04

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Compressive Strength as on	:	28^{th} day
Sample Received on	:	08.09.2017

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.08.2017	08.09.2017	8.126	488.5	21.71
2	11.08.2017	08.09.2017	8.064	476.2	21.16
3	11.08.2017	08.09.2017	8.317	500.8	22.26

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Job No.: CTCE/BBMP/BTR/W.No.13/Steel/2017-18 09.08.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
* Name of work	:	Improvements to main and cross roads at Kalyana Nagarain Ward No.13, in Shettyhalli Sub Division ,BBMP, Bangalore.
* Reference	:	EE/DD/WO/127/2016-17 Dated: 21.02.2017
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	09.08.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	515	556	13.5	O.K	O.K

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

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⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

AE-13

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#23/14, 7th Cross 3rd Stage 4th Block,
Shakthi Ganapathinagar,
Basaveshwaranagar, Bangalore-560 079.

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Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/BTR/W.No.13/Steel/2017-18

09.08.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
* Name of work	:	Improvements to main and cross roads at Kalyana Nagarain Ward No.13, in Shettyhalli Sub Division ,BBMP, Bangalore.
* Reference	:	EE/DD/WO/127/2016-17 Dated: 21.02.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	09.08.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	513	554	13.3	O.K	O.K

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Job No.: CTCE/BBMP/BTR/W.No.13/Steel/2017-18

09.08.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
* Name of work	:	Improvements to main and cross roads at Kalyana Nagarain Ward No.13, in Shettyhalli Sub Division ,BBMP, Bangalore.
* Reference	:	EE/DD/WO/127/2016-17 Dated: 21.02.2017
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	09.08.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	511	552	13.10	O.K	O.K

*Information is furnished by the Customer/Representative.

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T-2377

Job No.: CTCE/BBMP/BTR/W.No.13/CSR-08/407a/AGG/GR/2017-18 07.08.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. B T Ravikumar,** #129, 3rd Main Road, HVR layout, Magadi main road,Bangalore– 560 079.
*** Name of Work**	:	Improvements to main and cross roads at Kalyana Nagarain Ward No.13, in Shettyhalli Sub Division ,BBMP, Bangalore.
*** Reference**	:	EE/DD/WO/127/2016-17 Dated: 21.02.2017
*** Sample ID**	:	Coarse Aggregates (40mm)- Sample 2
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	05.08.2017
Date of Testing	:	07.08.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.28	95-100	85-100
20	34.72	30-70	0-20
10	14.14	10-35	0-5
4.75	3.18	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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VIDYARANI P.K.
Technical Manager

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